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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,702	04/09/2004	Yoshinobu Furuse	NGB-123-A	1541
21828	7590	07/08/2005	EXAMINER	
CARRIER BLACKMAN AND ASSOCIATES 24101 NOVI ROAD SUITE 100 NOVI, MI 48375			PATEL, KIRAN B	
			ART UNIT	PAPER NUMBER
			3612	

DATE MAILED: 07/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/821,702

Applicant(s)

FURUSE, YOSHINOBU

Examiner

Kiran B. Patel

Art Unit

3612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 3-12 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 13-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Non-Final Rejection

Election/Restriction

1. Applicant's election with traverse of Invention II, Species B, Claim(s) 1-2, 13-20 is acknowledged. The traversal is on the ground(s) that search for the additional inventions and/or Species would not create an undue burden upon the Examiner. This is not found persuasive because search for the additional inventions and/or Species would create an undue burden upon the Examiner.

Claim(s) 3-12 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected inventions and/or species, there being no allowable generic or linking claim.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim(s) 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heim et al. (5,398,453) in view of Wycech (5,884,960).

Regarding Claim(s) 1-2 Heim et al. (5,398,453) discloses the invention as claimed to include a door beam 6; an inner frame 7; and a lower frame 5, extending in a longitudinal direction of the vehicle and forming a closed section with an outer panel 30; a front frame member 2 arranged on the front side of the vehicle and a rear frame member 3 arranged on the rear side of the vehicle, said front and rear frame members are connected by the inner frame and the lower frame;

However, Heim et al. (5,398,453) does not disclose frame having a section of C shape.

Wycech (5,884,960) discloses a frame 202 having a section of C shape.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention, as disclosed by Heim et al. (5,398,453), to include a frame having a section of C shape, as disclosed by Wycech (5,884,960), to provide a frame with least weight and maximum strength and to improve the fuel efficiency of the vehicle.

3. Claim(s) 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heim et al. (5,398,453) in view of Wycech (5,884,960).

Regarding Claim(s) 13-14 Heim et al. (5,398,453) discloses the invention as claimed to include an inner frame 7 arranged in a door body inside the vehicle, extending a longitudinal direction of the vehicle, wherein the inner frame 7 extending in the longitudinal direction, and is arranged in the door body; a door body including: a front frame member 2 arranged on a front side of the vehicle; a rear frame member 3 arranged on a rear side of the vehicle; and an inner frame connecting the front frame member with the rear frame member inside the vehicle.

However, Heim et al. (5,398,453) does not disclose an inner frame to have an opening with a substantial C- shape cross section.

Wycech (5,884,960) discloses an inner frame 202 to have an opening with a substantial C- shape cross section.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention, as disclosed by Heim et al. (5,398,453), to include an inner frame to have an opening with a substantial

C- shape cross section, as disclosed by Wycech (5,884,960), to provide a frame with least weight and maximum strength and to improve the fuel efficiency of the vehicle.

4. Claim(s) 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heim et al. (5,398,453) as applied to claims 13-14 in view of ordinary skill in the art.

Regarding Claim(s) 15-20 Heim et al. (5,398,453) discloses the invention as claimed to include the inner frame 7 includes a pair of flanges 202 extending from upper and lower portions of the inner frame toward the inside of the opening, and

1. a width of each flange in a vertical direction; a base portion which forms the corresponding upper or lower portion, and a cross section of which is C-shaped; a connecting portion Fig 22 of connecting a side of the inner frame inside the vehicle with upper and lower leg portions extending from upper and lower end portions of the side toward the outside of the vehicle is curved.

However, Heim et al. (5,398,453) does not disclose the flange width to be $\frac{1}{4}$ to $\frac{1}{2}$ the width in the vertical direction; the width of the inner frame in a width

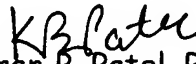
direction of the vehicle is set at $1/6$ to $1/1$ of a width in the vertical direction of the base portion.

It would have been obvious to one having ordinary skill in the art at the time the invention was made the frame with the flange width to be $\frac{1}{4}$ to $\frac{1}{2}$ the width in the vertical direction; the width of the inner frame in a width direction of the vehicle at $1/6$ to $1/1$ of a width in the vertical direction of the base portion, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use to optimize the cost of the product made in light of size, availability, capacity to manufacture, manufacturing technology, transportability, optimize the number of parts, safety and other considerations and still meet the design loads and specifications.

Conclusion

5. The prior art made of record in attached Notice of Reference Cited (PTO-892) and not relied upon is considered pertinent to applicant's disclosure. This art of record shows various features similar to the applicant's invention.

1. Any inquiry concerning this communication or earlier communications should be directed to Primary Examiner Kiran B. Patel whose telephone number is 571-272-6665. The examiner can normally be reached on M-F from 8:00 to 5:00. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.


Kiran B. Patel, P. E.
Primary Examiner
Art Unit 3612
July 4, 2005